Arsenic-adsorbing ion exchanger

A b s t r a c t

The present invention relates to a method for producing iron oxide/iron oxyhydroxide-containing carboxyl-bearing ion exchangers, which is characterized in that

a) a bead-type carboxyl-containing ion exchanger is contacted in aqueous suspension with iron(III) salts or

a`) an aminomethylated crosslinked polystyrene bead polymer is contacted in aqueous suspension with iron(III) salts and with chloroacetic acid and

b) the suspensions obtained from stages a) or a`) are adjusted to pHs in the range from 3 to 14 by adding alkali metal hydroxides or alkaline earth metal hydroxides and the resultant iron oxide/iron oxyhydroxide-containing ion exchangers are isolated by known methods,

to the ion exchangers themselves their, and also to their use for the adsorption of heavy metals, in particular arsenic.